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DR-939 April 1977



METEOROLOGICAL DATA REPORT

17901AT HONEST JOHN
MISSILE NOS. 1483/1494
ROUND NOS. 656 ASL/658 ASL
(27 April 1977)

BY

WSMR METEOROLOGICAL TEAM



ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO



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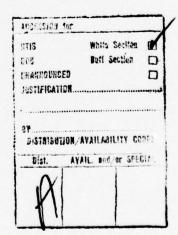
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INTRODUCTION

17901AT Honest John, Missile Number 1494, Round Number 656 ASL, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1039 HRS MDT, 27 April 1977. The scheduled launch time was 1030 HRS MDT.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

ELEVATION	3,986.67	FEET/MSI
PRESSURE	879.6	MBS
TEMPERATURE	21.6	°C
RELATIVE HUMIDITY	40	Z Z
DEW POINT	7.5	°c
DENSITY	1,033	GM/M ³
WIND SPEED	03	МРН
WIND DIRECTION	140	DEGREES
CLOUD COVER	2	Ci
CLOUD COVER	2	

TABLE I. SURFACE OBSERVATIONS TAKEN AT LC-33, 1039 HRS MDT/27 APRIL 1977.

INTRODUCTION

17901AT Honest John, Missile Number 1483, Round Number 658 ASL, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1136 HRS MDT, 27 April 1977. The scheduled launch time was 1130 HRS MDT.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

ELEVATION	3,986.67	FEET/MSI
PRESSURE	879.2	MBS
TEMPERATURE	22.7	°C
RELATIVE HUMIDITY	39	7.
DEW POINT	8.0	°C
DENSITY	1,030	GM/M ³
WIND SPEED	04	мрн
WIND DIRECTION	243	DEGREES
CLOUD COVER	.1	Cu Ci

TABLE II. SURFACE OBSERVATIONS TAKEN AT LC-33, 1136 HRS MDT/27 APRIL 1977.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	141	03.0	2100	164	05.0
100	150	03.0	2200	158	05.0
200	154	03.0	2300	185	05.0
300	157	04.0	2400	202	03.0
400	164	04.0	2500	225	01.0
500	158	03.0	2600	198	02.0
600	170	06.0	2700	270	01.0
700	173	08.0	2800	337	04.0
800	168	07.0	2900	304	04.0
900	180	08.0	3000	344	03.0
1000	166	06.0	3100	360	03.0
1100	165	08.0	3200	305	06.0
1200	162	06.0	3300	297	04.0
1300	165	06.0	3400	315	01.0
1400	158	05.0	3500	008	01.0
1500	154	04.0	3600	045	02.0
1600	157	04.0	3700	206	01.0
1700	174	05.0	3800	071	02.0
1800	188	04.0	3900	146	02.0
1900	180	03.0	4000	166	02.0
2000	186	05.0	4100	180	02.0

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM LC-33, AT 1039 MDT/27 APRIL 1977
17901AT HONEST JOHN, MISSILE NO. 1494, ROUND NO. 656 ASL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,296.83 Y = 185,251.85

z = 3,986.67

APPROXIMATELY:

815 FEET SSE OF LAUNCHER

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	153	03.0
4300	221	05.0
4400	214	05.0
4500	213	07.0
4600	194	08.0
4700	207	08.0
4800	236	07.0
4900	236	11.0
5000	222	12.0
5100	228	11.0
5200	216	15.0
5300	205	13.0
5400	197	11.0
5500	214	10.0
5600	218	13.0
5700	212	10.0
5800	210	10.0
5900	197	13.0
6000	190	14.0
6100	207	11.0
6200	219	11.0
6300	237	08.0
6400	236	11.0
6500	234	12.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
6600	213	11.0
6700	226	10.0
6800	236	11.0
6900	257	09.0
7000	244	12.0
7100	235	10.0
7200	246	10.0
7300	240	10.0
7400	250	07.0
7500	260	09.0
7600	278	08.0
7700	259	06.0
7800	288	07.0
7900	304	07.0
8000	274	06.0
8100	292	10.0
8200	283	11.0
8300	288	08.0
8400	307	10.0
8500	291	11.0
8600	284	09.0
8700	270	06.0
8800	270	06.0
8900	291	06.0

TABLE III. (CONT)

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)
9000	328	08.0	11400
9100	309	11.0	11500
9200	306	09.0	11600
9300	273	09.0	11700
9400	274	07.0	11800
9500	287	05.0	11900
9600	275	04.0	12000
9700	264	04.0	12100
9800	290	05.0	12200
9900	312	06.0	12300
10000	301	06.0	12400
10100	275	06.0	12500
10200	266	07.0	12600
10300	274	07.0	12700
10400	270	08.0	12800
10500	276	09.0	12900
10600	284	10.0	13000
10700	300	11.0	13100
10800	265	10.0	13200
10900	274	09.0	13300
11000	267	08.0	13400
11100	273	09.0	13500
11200	254	07.0	13600
11300	250	07.0	13700

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
11400	255	08.0
11500	253	10.0
11600	264	10.0
11700	242	12.0
11800	270	07.0
11900	276	06.0
12000	237	06.0
12100	315	01.0
12200	229	04.0
12300	208	09.0
12400	213	07.0
12500	224	09.0
12600	225	07.0
12700	234	04.0
12800	225	04.0
12900	219	03.0
13000	259	08.0
13100	262	08.0
13200	264	05.0
13300	254	05.0
13400	208	07.0
13500	230	07.0
13600	228	07.0

225

06.0

TABLE III. (CONT)

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
13800	315	02.0
13900	316	03.0
14000	315	02.0
14100	255	06.0
14200	270	01.0
14300	247	03.0
14400	270	06.0
14500	296	03.0
14600	265	06.0
14700	297	06.0
14800	280	09.0
14900	241	05.0
15000	290	06.0
15100	285	08.0
15200	257	07.0
15300	270	11.0
15400	267	11.0
15500	270	09.0
15600	256	10.0
15700	282	13.0
15800	283	13.0
15900	301	10.0
16000	288	10.0
16100	289	10.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
16200	291	06.0
16300	296	05.0
16400	287	10.0
16500	280	15.0
16600	286	13.0
16700	298	12.0
16800	313	18.0
16900	312	18.0
17000	308	18.0
17100	308	18.0
17200	307	18.0
17300	307	18.0
17400	310	18.0
17500	313	17.0
17600	314	17.0
17700	315	18.0
17800	315	18.0
17900	313	17.0
18000	312	16.0
18100	308	17.0
18200	304	16.0
18300	313	18.0
18400	299	17.0
18500	295	18.0

TABLE III. (CONT)

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
18600	309	16.0
18700	308	13.0
18800	301	13.0
18900	304	19.0
19000	306	23.0
19100	297	21.0
19200	298	19.0
19300	300	18.0
19400	292	17.0
19500	295	19.0
19600	306	21.0
19700	300	18.0
19800	305	20.0
19900	308	22.0
20000	303	18.0
20100	307	17.0
20200	311	20.0
20300	305	16.0
20400	304	18.0
20500	293	18.0
20600	305	20.0
20700	309	16.0
20800	304	18.0
20900	291	19.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
21000	294	22.0
21100	309	21.0
21200	293	22.0
21300	295	24.0
21400	301	20.0
21500	295	26.0
21600	293	25.0
21700	299	26.0
21800	295	29.0
21900	297	31.0
22000	300	29.0
22100	302	26.0
22200	303	25.0
22300	303	25.0
22400	304	25.0
22500	302	24.0
22600	300	24.0
22700	299	24.0
22800	297	24.0
22900	303	27.0
23000	301	23.0
23100	298	24,0
23200	296	27.0
23300	291	22.0

TABLE III. (CONT)

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
23400	299	23.0
23500	290	25.0
23600	295	29.0
23700	295	26.0
23800	295	25.0
23900	299	22.0
24000	304	25.0
24100	307	28.0
24200	301	23.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
24300	310	24.0
24400	304	28.0
24500	295	28.0
24600	302	24.0
24700	295	25.0
24800	306	28.0
24900	315	17.0
25000	302	24.0
	18	

TABLE III. (CONT)

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	160	03.0	2100	138	07.0
100	203	04.0	2200	132	07.0
200	203	04.0	2300	129	06.0
300	203	04.0	2400	128	05.0
400	209	04.0	2500	135	05.0
500	206	04.0	2600	140	04.0
600	202	05.0	2700	180	03.0
700	194	06.0	2800	218	• 03.0
800	189	07.0	2900	210	03.0
900	184	08.0	3000	180	02.0
1000	176	08.0	3100	143	03.0
1100	176	08.0	3200	153	02.0
1200	180	08.0	3300	166	02.0
1300	183	08.0	3400	180	02.0
1400	191	08.0	3500	194	02.0
1500	193	07.0	3600	216	03.0
1600	184	07.0	3700	231	03.0
1700	171	06.0	3800	236	04.0
1800	161	06.0	3900	240	04.0
1900	150	06.0	4000	251	05.0
2000	146	06.0	4100	249	04.0

TABLE IV. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM LC-33, AT 1139 MDT/27 APRIL 1977
17901AT HONEST JOHN, MISSILE NO. 1483, ROUND NO. 658 ASL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,296.83

Y = 185,251.85

z * 3,986.67

APPROXIMATELY:

815 FEET SSE OF LAUNCHER

NOTE:

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	246	04.0
4300	243	03.0
4400	246	04.0
4500	251	05.0
4600	253	05.0
4700	251	06.0
4800	249	07.0
4900 ♥	246	08.0
5000	245	08.0
5100	240	09.0
5200	238	10.0
5300	233	10.0
5400	228	10.0
5500	227	10.0
5600	225	11.0
5700	222	11.0
5800	222	11.0
5900	223	12.0
6000	225	12.0
6100	225	12.0
6200	226	12.0
6300	231	12.0
6400	233	12.0
6500	238	11.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
6600	242	11.0
6700	243	10.0
6800	245	11.0
6900	249	10.0
7000	251	10.0
7100	254	09.0
7200	254	10.0
7300	257	10.0
7400	259	10.0
7500	257	10.0
7600	260	09.0
7700	260	09.0
7800	260	08.0
7900	260	08.0
8000	262	08.0
8100	262	07.0
8200	261	07.0
8300	261	06.0
8400	259	06.0
8500	264	05.0
8600	263	05.0
8700	263	05.0
8800	263	05.0
8900	263	05.0

TABLE IV. (CONT)

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
9000	270	05.0
9100	270	05.0
9200	276	05.0
9300	282	05.0
9400	285	06.0
9500	290	06.0
9600	296	07.0
9700	304	07.0
9800	305	08.0
9900	306	09.0
10000	306	09.0
10100	304	09.0
10200	304	09.0
10300	301	09.0
10400	297	09.0
10500	297	09.0
10600	296	08.0
10700	296	08.0
10800	296	08.0
10900	293	08.0
11000	290	08.0
11100	286	08.0
11200	282	08.0
11300	279	08.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
11400	270	08.0
11500	266	08.0
11600	263	07.0
11700	258	07.0
11800	254	07.0
11900	252	06.0
12000	250	06.0
12100	243	06.0
12200	245	06.0
12300	245	06.0
12400	243	06.0
12500	245	06.0
12600	245	06.0
12700	243	06.0
12800	243	06.0
12900	243	06.0
13000	243	06.0
13100	243	06.0
13200	243	06.0
13300	241	05.0
13400	241	05.0
13500	238	05.0
13600	238	05.0
13700	240	04.0

TABLE IV. (CONT)

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
13800	240	04.0
13900	240	04.0
14000	240	04.0
14100	238	05.0
14200	241	05.0
14300	245	06.0
14400	250	07.0
14500	249	09.0
14600	248	08.0
14700	246	07.0
14800	239	06.0
14900	236	05.0
15000	241	05.0
15100	245	06.0
15200	251	06.0
15300	253	07.0
15400	254	07.0
15500	250	07.0
15600	251	08.0
15700	251	08.0
15800	256	08.0
15900	260	09.0
16000	263	09.0
16100	270	09.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
16200	276	11.0
16300	278	12.0
16400	280	12.0
16500	283	12.0
16600	285	12.0
16700	297	13.0
16800	289	13.0
16900	290	13.0
17000	289	14.0
17100	289	14.0
17200	290	15.0
17300	292	15.0
17400	292	16.0
17500	293	15.0
17600	295	15.0
17700	297	15.0
17800	297	15.0
17900	300	15.0
18000	303	15.0
18100	305	14.0
18200	307	15.0
18300	307	15.0
18400	308	15.0
18500	307	15.0

TABLE IV. (CONT)

OSSE MOTORIO METO			
HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	
18600	308	15.0	
18700	307	16.0	
18800	308	16.0	
18900	309	17.0	
19000	309	17.0	
19100	308	17.0	
19200	309	17.0	
19300	309	17.0	
19400	309	17.0	
19500	309	17.0	
19600	308	18.0	
19700	308	18.0	
19800	307	18.0	
19900	307	18.0	
20000	307	19.0	
20100	307	19.0	
20200	308	20.0	
20300	308	20.0	
20400	307	21.0	
20500	307	21.0	
20600	308	22.0	
20700	309	22.0	
20800	307	23.0	
20900	308	24.0	

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
21000	308	24.0
21100	308	25.0
21200	308	25.0
21300	307	26.0
21400	308	26.0
21500	308	26.0
21600	308	26.0
21700	308	26.0
21800	308	26.0
21900	308	26.0
22000	308	26.0
22100	307	26.0
22200	306	26.0
22300	306	26.0
22400	305	26.0
22500	304	26.0
22600	304	26.0
22700	303	25.0
22800	301	25.0
22900	300	24.0
23000	297	24.0
· 23100	295	23.0
23200	294	23.0
23300	292	24.0

TABLE IV. (CONT)

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
23400	292	24.0
23500	292	25.0
23600	293	26.0
23700	294	26.0
23800	294	27.0
23900	294	28.0
24000	294	30.0
24100	294	30.0
24200	293	31.0
24300	294	31.0
24400	294	31.0
24500	295	31.0
24600	295	31.0
24700	295	31.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
24800	296	31.0
24900	296	31.0
25000	296	31.0
25100	296	31.0
25200	297	30.0
25300	297	30.0
25400	297	30.0
25500	297	30.0
25600	295	30.0
25700	295	30.0
25800	294	30.0
25900	294	30.0
26000	293	30.0
26100	293	30.0

TABLE IV. (CONT)

STATION ALTITUDE 3989. FO FFET MSL 1100 HRS MDT 338 ASCENSION NO. 27 APR. 77

17

SIGNIFICANT LEVEL DATA WHITE SANDE

WSTM SITE COORDINATES

488580.00 FEET E

TABLE V.

DEWPOINT TEMPERATURE AIR PRESSURE GEOMETRIC ALTITUDE

RFL.HUM. PFRCFNT 39.6 41.0 57.0 46.0 26.0 38.0 24.0 24.0 36.0 74.0 48.0 39.0 DEGREES CENTIGRADE 3.3 . -2.5 -5.4 -15.4 -17.6 -27.2 46.9 -21.5 -29.8 -33.7 -38.9 8.14--39.1 -30.6 -14.6 18.4 17.4 17.4 6.7 **---6.2 -12.3 -10.8 -18.2 -29.4 -38.4 -16.2 -24.4 MILLIBARS MSL FEET 3989.0 8.4564 10309.7 17491.0 5578.7 15887.7 19645.7 20077.7 21841.6 24526.6 27595.3 13355.1 21000.5 26615.3 879.6 350.n 0.000 500.0 479.R 462.3 6.004 865.3 831.3 624.3 566.3 531.8 351.1 446.8 366.3

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STATION ALTITUDE 3989.00 FFFT MSL 27 APR. 77 1100 HRS MUT ASCENSION NO. 338

UPPER AIR DATA
1170020338
WHITE SANDS
TABLE VI.

WSTM SITE COORDINATES 488580.00 FEET E 185045.00 FEET N

GEONETRIC	PRESSURE	Σ.	PERATURE	REL . HUM.	DENSITY	SPEED OF	FIND DAT	4	INDEX
ALTITUDE MSL FEET	HILLIBARS	AIR	DE"POINT CENTIGRADE	0	AMETER	KNOTS	DEGREES(TN)	KNOTS	REFRACTION
989.0	879.6	22.3		38.0	2	671.1	ċ	;	.00027
	79.	22.2	7.2			-	210.1	-:	200
5.000	3	8		*	1028.4	4	13.	3.6	•
0.000	848.6	17.4		39.1	1914.0	645.2	218.4	3.1	1.000261
-	33	17.4	3.9	0	5		24.		1.000258
0.000		16.4	3.5	~	981.2		234.1	2.2	•
500.0	803.9	15.3	5.9	43.3		642.8	•	2.0	1.000250
0.000	89	14.2	2 • 3	44.6		641.5		2.3	
200.0	775.2	13.1	1.7	45.9			260.9		1.000241
0.000	19	11.9	1.0	47.1		6-8-9		5.2	•
20005	747.6	10.8	*	1001	+	647.5	235.2	7.4	1.000233
0.000	3	4.7	•••	40.7	.10	•	-	4.7	•
20009	20	8.5	0.1.			. 4.		11.0	1.000225
0.000	0	7.4	-1.7	2		W	5	10.	2
	6	2.9	-2.3		864.3	£2.	223.6	9.6	1.000218
6.000	682.1	0.7	-2.7	8.7.5	852.3		231.1	8.3	000
0.00	h.699	3.5	-3.2	61.2	840.5	. 8	243.4	7.1	1.000211
0.000	56	2.2	-3.7	•	828.9	647.3	265.4	6.2	.60029
12500.3	1	0.	-4.3	1.89	817.5	5	264.5	5.8	•
300000	~	5	-5.0	71.6	806.2	1.4.9	299.4	5.2	1.0000201
0.009	620.8	-1.7	0.9-	72.5	794.8	642.7	306.9	60 • 7	•
0.000	0.609	-2.6	-7.B	4.19	782.6	4.1.9	50	* * *	-
6.009	597.4	-306	-4.7	2.29	770,5	•	93	7.7	
0.000	286.0	-4.5	-11.7	57.1	758.7	6.950	78	2.1	· 00018
2.005	574.8	-5.5	-13.7	52.0	747.0	17.	-	5.1	.00017
0000	563.R	-6.5	-15.5	48.6	735.8	6.919	.95	4.7	1.000174
•	552.9	-8.0	-16.2	51.4			48	4.3	-
0.000	542.1	7.6-	•	54.2	715.2	633.1	-	-:	1.000168
	531.6	-10.8	-17.6	•		631.3	45.	4.0	1.000165
C.000	521.2		0.01-	4-62		4	. 4		•

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ATION	STATION ALTITUDE 3989-00 FFET MSL	3989.00	FFET	MSL	
27 APR. 77	11	1100 HRS MDT	S MDT		

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MAUDATORY LEVELS 1170020338 WHITE SANDS

WSTM SITE COORDINATES 488580.00 FEET E 185045.00 FEET N

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		AU ONIE
		PEL . HUM.
	TABLE VII.	TEMPERATURE RELOHUM.
		PRESSURE GFOPOTENTIAL
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PRESSURE	PRESSURE GFOPOTENTIAL	TEM	PFPATURE	PEL . HUM.		ATA
MILLIBARS	FEET	DEGREES	DEGREES CENTIGRADE	PERCENT	DEGREES(TN) KN	KNOTS
850.0		17.4	3.3	39.	217.9	3.1
80C.		15.0	2.8	. 7 7	257.3	2.1
750.0		11.0	5.	• 69 +	235.9	7.1
700.0	10304.	6.7	-2.2	53.	222.5	10.0
9.059		1.5	1.4.	47.	279.2	1.9
9009		-3.4	-9.3	43.	296.8	4.3
556.0		-8.3	-16.4	.2.	244.3	4.3
5005		-12.3	-21.5	.95	260.2	8.4
450.1		-17.8	-32.2	27.	299.6	13.5
436.		-24.4	-39.1	24.	300.6	18,2
350.0		-36.8	0.17-	12.	297.2	20.2